


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/22/13306	
1.3 Title of PCN	STM32G03 and STM32G04 64K - product enhancement	
1.4 Product Category	STM32G030x, STM32G031x, STM32G04x	
1.5 Issue date	2022-04-26	

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
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2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Ricardo Antonio DE SA EARP
2.1.2 Marketing Manager	Veronique BARLATIER
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Die redesign : Mask or mask set change with new die design like metallization (specifically chip frontside) or bug fix	TSMC FAB14 (Taiwan) ST Crolles (France)

4. Description of change

	Old	New
4.1 Description	<p>STM32G030x, STM32G031x and STM32G04x - (Die466 – cut1.1 revision Z) product has limitation as described in Errata Sheets.</p> <ul style="list-style-type: none"> - ES0486 (Rev 3 - Feb 2021) for STM32G030 device - ES0487 (Rev 3 - Feb 2021) for STM32G031 device - ES0488 (Rev 3 - Feb 2021) for STM32G04 device <p>What are the limitations:</p> <ol style="list-style-type: none"> 1. Device lock in case of OPT bytes mismatch 2. Flash memory PCROP area weakness (STM32G030 device not concerned) 3. TIM16 and TIM17 are unduly clocked by SYSCLK 4. ADC Offset calibration improvements 5. Under RDP Level 1, booting from Main Flash memory selected through PA14 BOOT0 pin is not functional 6. DMAMUX cannot be synchronized or triggered by EXTI 	<p>STM32G030x, STM32G031x and STM32G04x - (Die466 – cut1.2 revision Y) product enhancement fixes those limitations as described in Errata Sheet.</p> <ul style="list-style-type: none"> - ES0486 (Rev 4 - Apr 2022) for STM32G030 device - ES0487 (Rev 4 - Apr 2022) for STM32G031 device - ES0488 (Rev 4 - Apr 2022) for STM32G04 device <p>What are the enhancements:</p> <ol style="list-style-type: none"> 1. Device lock in case of OPT bytes mismatch - fixed 2. Flash memory PCROP area weakness – fixed (note STM32G030 device is not concerned by this issue) 3. TIM16 and TIM17 are unduly clocked by SYSCLK - fixed 4. ADC Offset calibration improved 5. Under RDP Level 1, booting from Main Flash memory selected through PA14 BOOT0 pin is functional 6. DMAMUX can be synchronized or triggered by EXTI 7. Device IDCODE updated
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Impact on functionality as indicated in Errata Sheets: ES0486, ES0487 & ES0488	

5. Reason / motivation for change

5.1 Motivation	Improvements was implemented to increase robustness, performances and quality of our products.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Traceability ensured by ST internal tools. Die revision changes from "Z" to "Y" on Package Marking
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7. Timing / schedule

7.1 Date of qualification results	2022-03-30
7.2 Intended start of delivery	2022-05-26
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	13306 MDG-MCD-RER1808 V2 - STM32G031x - Die 466XXXY - Reliability evaluation report.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2022-04-26

9. Attachments (additional documentations)

13306 Public product.pdf
 13306 MDG-MCD-RER1808 V2 - STM32G031x - Die 466XXXY - Reliability evaluation report.pdf
 13306 PCN13306_Additional information.pdf

10. Affected parts

10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	STM32G030C6T6	
	STM32G030C8T6	
	STM32G030F6P6	
	STM32G030J6M6	
	STM32G030K6T6	
	STM32G030K6T6TR	
	STM32G030K8T6	
	STM32G031C6T6	
	STM32G031C6U6	
	STM32G031C8T6	
	STM32G031C8U6	
	STM32G031F4P6	
	STM32G031F6P6	
	STM32G031F8P6	
	STM32G031G6U6	
	STM32G031G8U6	
	STM32G031J6M6	
	STM32G031K6T6	
	STM32G031K6U6	
	STM32G031K8T6	
	STM32G031K8U6	
	STM32G031Y8Y6TR	
	STM32G041C8T6	
	STM32G041J6M6	



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCN Title : STM32G03 and STM32G04 64K - product enhancement

PCN Reference : MDG/22/13306

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

STM32G031F4P3	STM32G031K6T6	STM32G031C8T7
STM32G031J6M6	STM32G041F6P6TR	STM32G031K4T6
STM32G031F6P7TR	STM32G030F6P6TR	STM32G031J4M6
STM32G030K6T6	STM32G041K6T6	STM32G031K8T6
STM32G030C8T6	STM32G031K8T3	STM32G030C6T6TR
STM32G041K8T6	STM32G031C8U7	STM32G031C8U6TR
STM32G031K8U7TR	STM32G041F8P6	STM32G031C6U6
STM32G031K4U6	STM32G031F4P6	STM32G031G8U6TR
STM32G041Y8Y6TR	STM32G031K8U7	STM32G031K4U6TR
STM32G031K8T3TR	STM32G031C8U6	STM32G031Y8Y6TR
STM32G041F6P6	STM32G031K8U6TR	STM32G030J6M6
STM32G031F8P6TR	STM32G041J6M6	STM32G031C4U6
STM32G041K8U6	STM32G031F6P6	STM32G031F8P6
STM32G031J6M6TR	STM32G031K8T6TR	STM32G030K6T6TR
STM32G031K8U6	STM32G041G8U6	STM32G031C8T6
STM32G041C8T6	STM32G031C4T6	STM32G031G4U6
STM32G031K6U6	STM32G030F6P6	STM32G041C8U6
STM32G031K4U3	STM32G031G6U6	STM32G041G6U6
STM32G031K4U3TR	STM32G031G8U6	STM32G030K8T6
STM32G031K8T7TR	STM32G030C6T6	STM32G031C6T6
STM32G041C6T6	STM32G031G8U3TR	STM32G031C8U7TR
STM32G030K8T6TR	STM32G031K8T7	STM32G031J6M3
STM32G031G6U6TR	STM32G031G8U3	STM32G031G6U3TR